Morning Mind-Stretcher

A hat and a ball cost $1.10. The hat costs $1.00 more than the ball. How much is the ball?

Math Fact Fluency:

A Daily Plan to

Develop Automaticity

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Math Fact Fluency: What is it?

- Ability to recall answers to basic facts automatically and without hesitation or use of strategies

First Thing's First...

- Students must have a thorough understanding of the base ten number system.
- Students must have a large repertoire of number-relationship strategies.
- Students must have an understanding of the operations and their relationships to each other.

Math Fact Fluency: How do you build it?

- Step 1: Make it fun, short and sweet!!
- Step 2: Do it daily!
- Step 3: Repeat steps one and two at home and at school!

Math Fact Fluency: When Do I Fit This In?

- **When you have a few minutes...make the minutes count!**
  - As an opening activity
  - Walking to/from specials
  - Walking to/from lunch & recess
  - Waiting for specials to begin
  - In between lessons or activities (transitions)
  - As a mind-break or an energizer

Math Fact Fluency: How Do I Know If It Is Working?

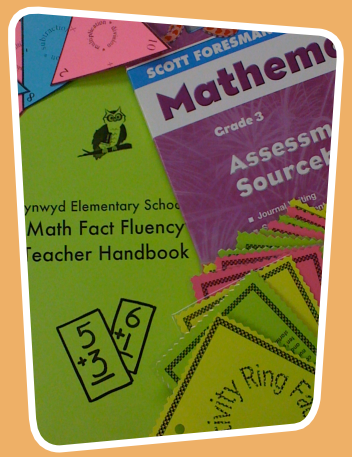
- On-going informal assessment strategies like observation, questioning, exit slips, etc.
- On-going formal assessment strategies like written or verbal un-timed data collection

Grade Level Guidelines

- By the end of each grade level students will be able to easily recall:
  - First Grade: Addition & subtraction facts to 10
  - Second Grade: Addition & subtraction facts to 20
  - Third Grade: Multiplication facts through the 9's to 9 x 5
  - Fourth Grade: Multiplication facts to 12 x 12 & division facts through the 9's (to 45)
  - Fifth Grade: Division facts through the 12's table

Math Fact Fluency: Things to Remember

- This should be fun, not a chore!
- It is with repetition, not competition that students will develop fluency.
- Students should say the entire fact, not just the answer.
- It should take no more than 3-5 minutes.
- There should be no more than 10-15 facts in a set.
- There should be a mix of new and old facts in each practice set.
- Facts should be taught in clusters, not as isolated pieces of information.
- Students should practice at school AND at home DAILY.
- Students should have the opportunity to correct mistakes and learn the correct response...no opt out.
- It is imperative that students do not feel singled out or punished for incorrect responses.

Resources

- Cynwyd's Math Fact Fluency Handbook
- ST Assessment Sourcebook
- eBoard for online resources